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International Bureau

INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 7 : H04M 1/725

A1

(11) International Publication Number: WO 00/57617

(43) International Publication Date: 28 September 2000 (28.09.00)

(21) International Application Number: PCT/EP00/02370

(22) International Filing Date: 16 March 2000 (16.03.00)

(30) Priority Data:
9906316.6 18 March 1999 (18.03.99) GB

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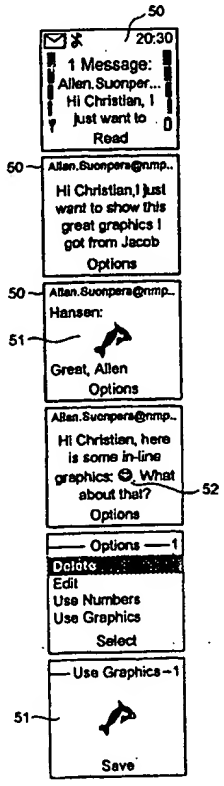
(81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published
With international search report.
Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.

(54) Title: COMMUNICATION TERMINAL HANDLING MESSAGES INCLUDING GRAPHICS

(57) Abstract

A communication terminal for handling messages and having a controller, a transceiver for communicating with a wireless communication network, and a user interface through which the user operates the terminal. The user interface includes a display. The said communication terminal furthermore comprises a message editor application by means of which the user is allowed to generate a compound message including a text part and at least one graphical icon part. The controller generates a message for transmission via said transceiver, and the message includes a text part in a predefined message text character format, a graphical part including a record for each of said at least one graphical icon part in a graphical format, and information in the message defining the position of said at least one graphical icon part in the text part.



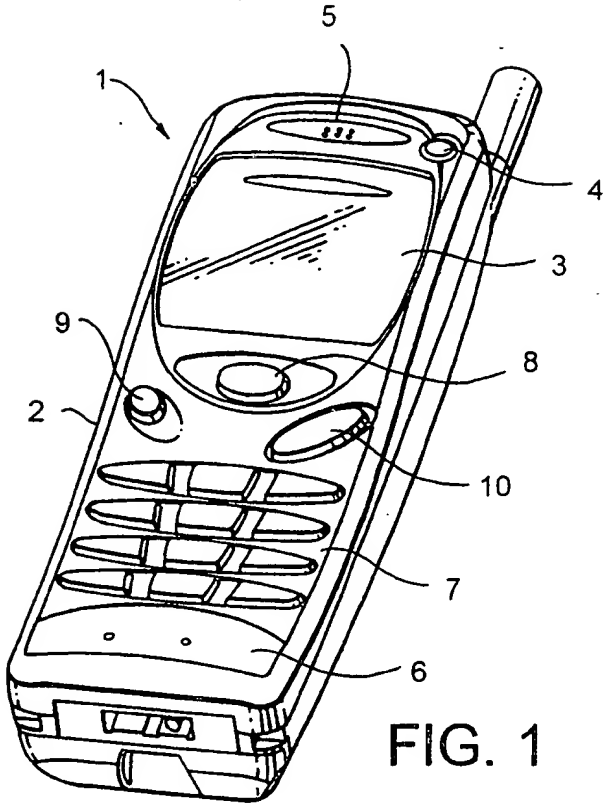

5
1
4
3
9
8
2
10
7
6

FIG. 1

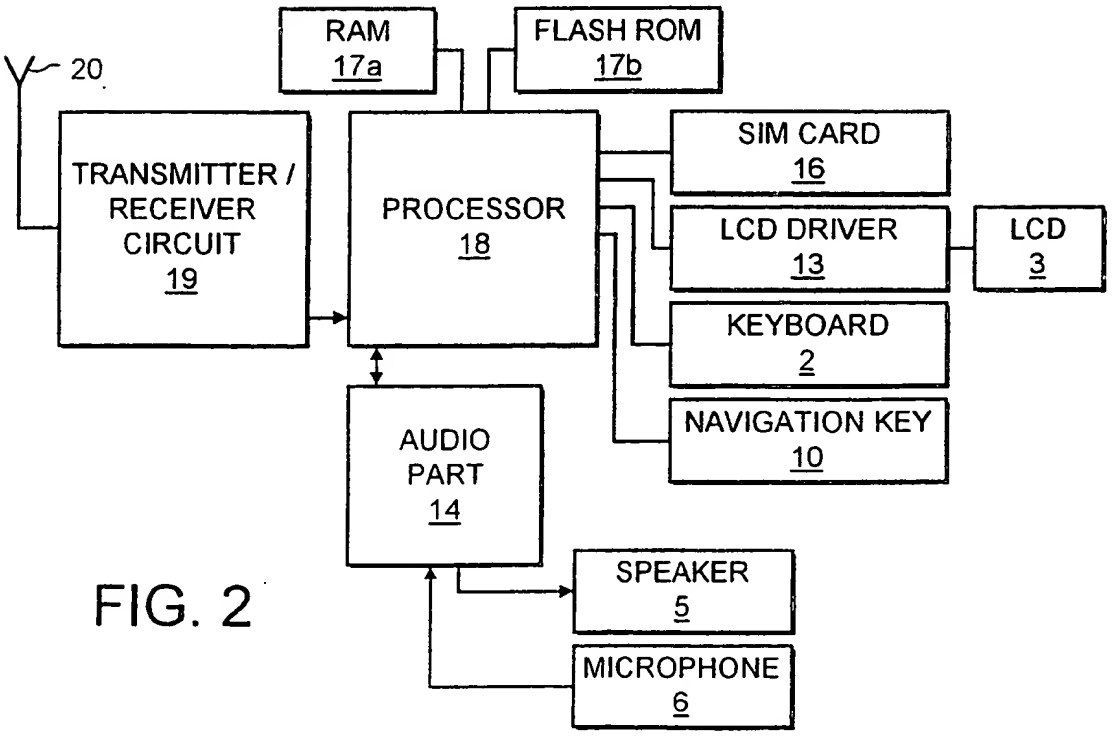

RAM
17a
FLASH ROM
17b
20
TRANSMITTER / RECEIVER CIRCUIT
19
PROCESSOR
18
SIM CARD
16
LCD DRIVER
13
LCD
3
KEYBOARD
2
NAVIGATION KEY
10
AUDIO PART
14
SPEAKER
5
MICROPHONE
6

FIG. 2

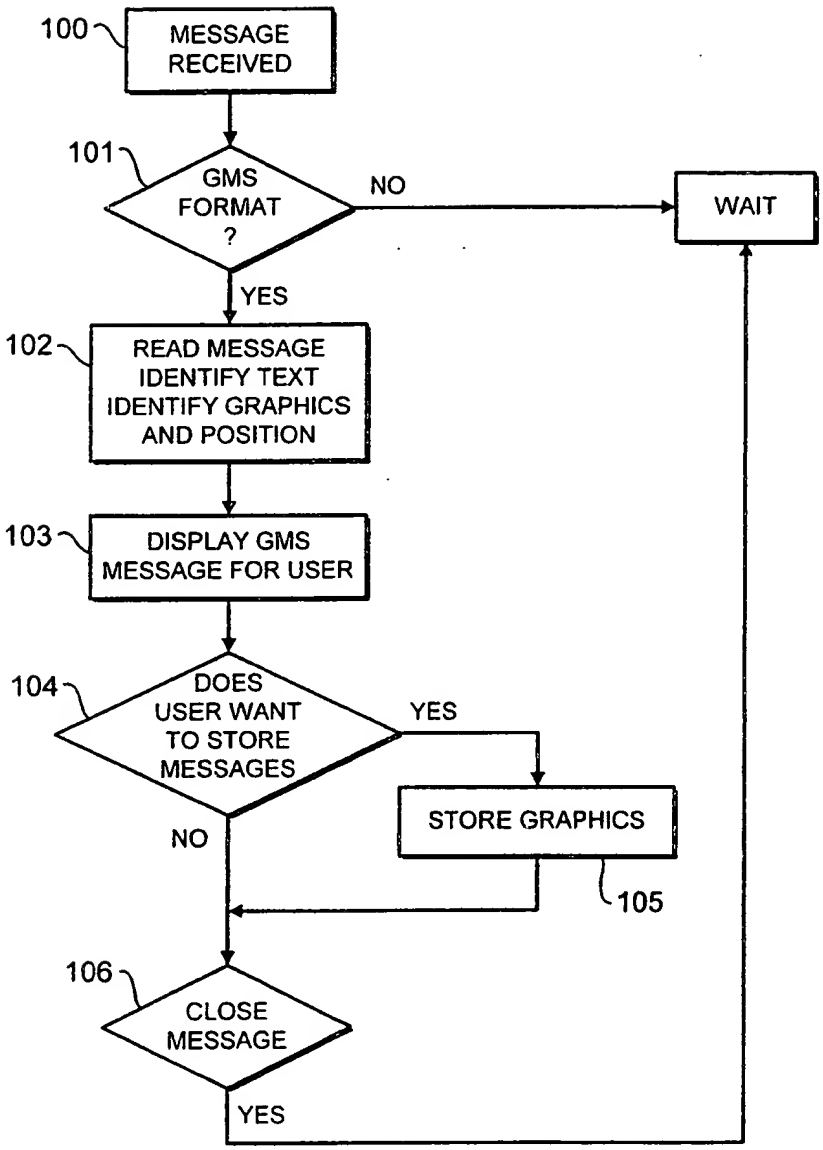

100
MESSAGE RECEIVED
101
GMS FORMAT ?
NO
WAIT
YES
102
READ MESSAGE IDENTIFY TEXT IDENTIFY GRAPHICS AND POSITION
103
DISPLAY GMS MESSAGE FOR USER
104
DOES USER WANT TO STORE MESSAGES
YES
STORE GRAPHICS
105
NO
106
CLOSE MESSAGE
YES

FIG. 3

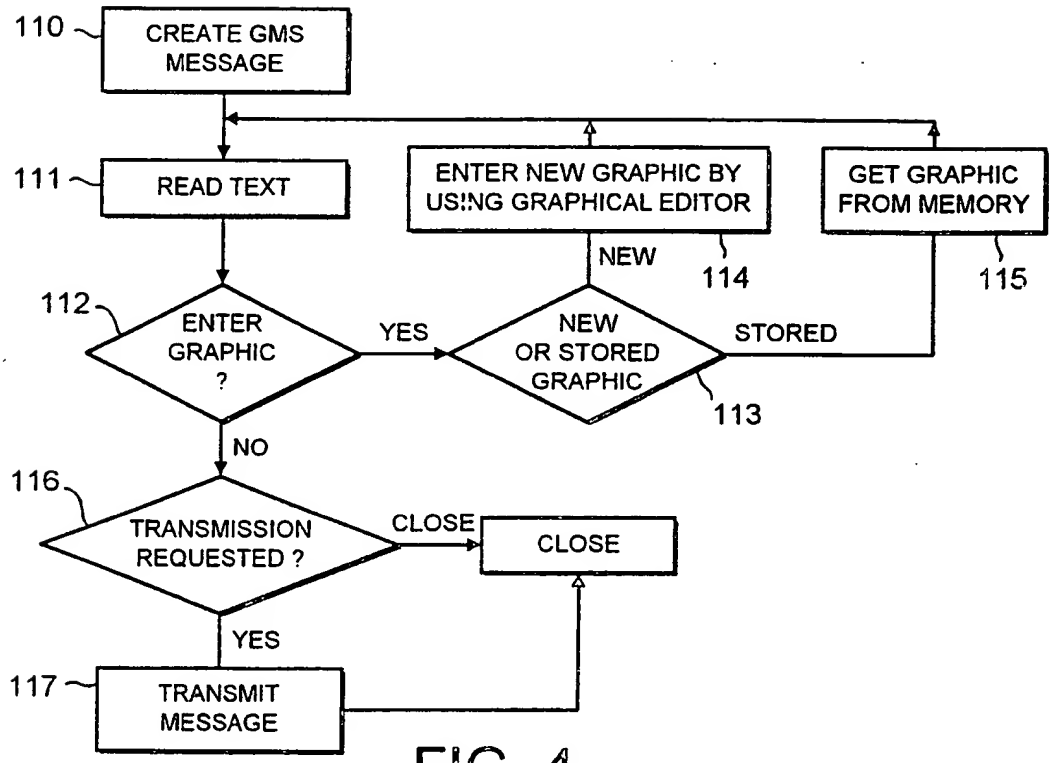

110
CREATE GMS MESSAGE
111
READ TEXT
ENTER NEW GRAPHIC BY USING GRAPHICAL EDITOR
GET GRAPHIC FROM MEMORY
NEW
114
115
112
ENTER GRAPHIC ?
YES
NEW OR STORED GRAPHIC
STORED
113
NO
116
TRANSMISSION REQUESTED ?
CLOSE
CLOSE
YES
117
TRANSMIT MESSAGE

FIG. 4

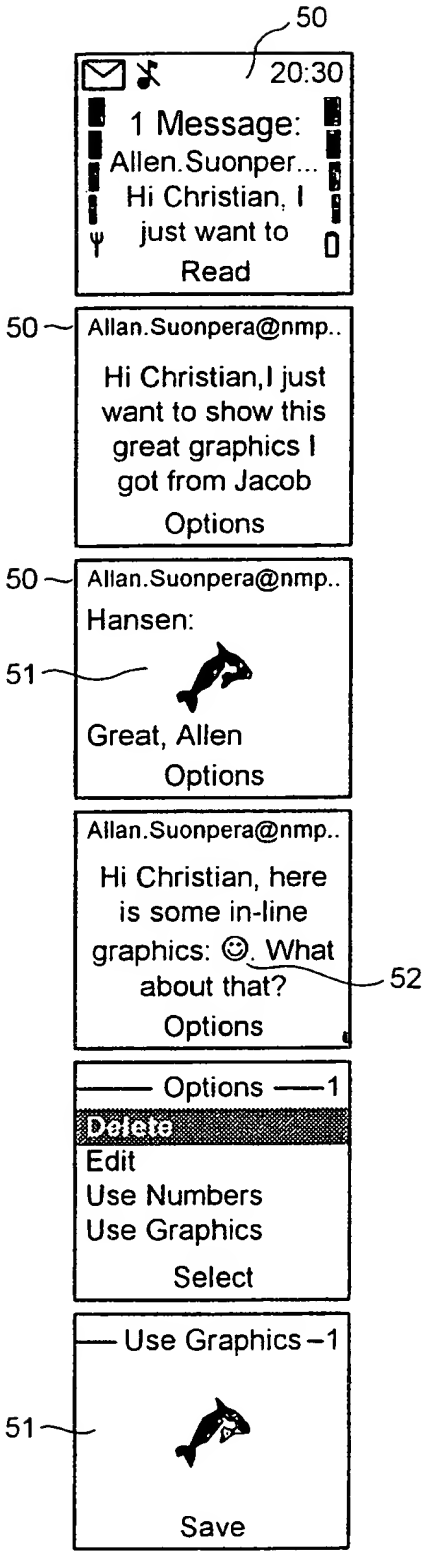

50
20:30
1 Message:
Allen.Suonper...
Hi Christian, I just want to
Read
50
Allan.Suonpera@nmp..
Hi Christian,I just want to show this great graphics I got from Jacob
Options
50
Allan.Suonpera@nmp..
Hansen:
51
Great, Allen
Options
Allan.Suonpera@nmp..
Hi Christian, here is some in-line graphics: ☺. What about that?
52
Options
Options 1
Delete
Edit
Use Numbers
Use Graphics
Select
Use Graphics 1
51
Save

FIG. 5

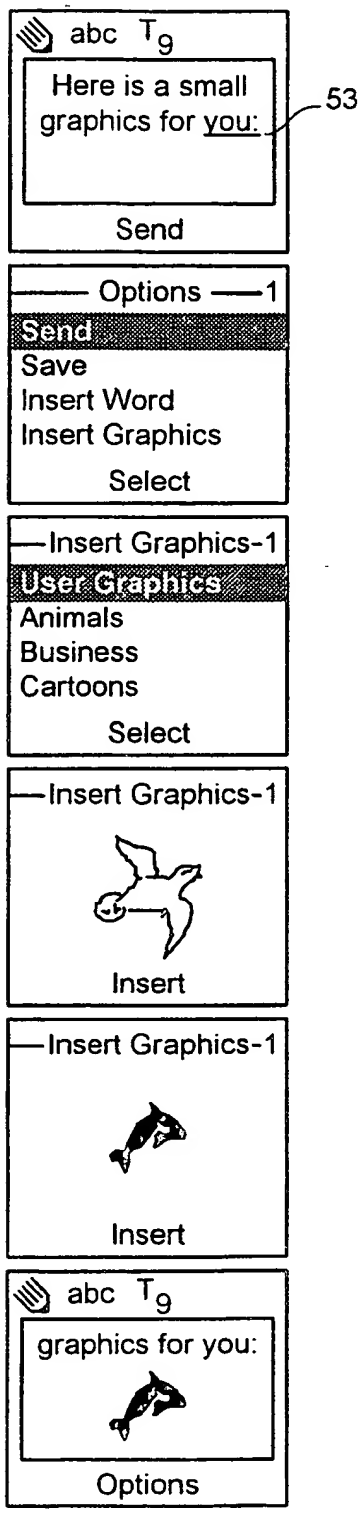

abc T9
Here is a small graphics for you:
53
Send
Options 1
Send
Save
Insert Word
Insert Graphics
Select
Insert Graphics-1
User Graphics
Animals
Business
Cartoons
Select
Insert Graphics-1
Insert
Insert Graphics-1
Insert
abc T9
graphics for you:
Options

FIG. 6

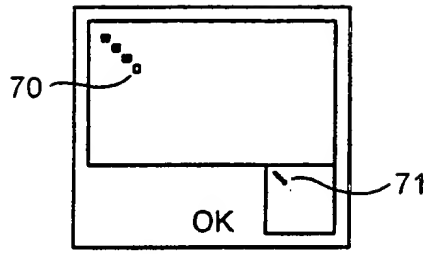

70
71
OK

FIG. 7

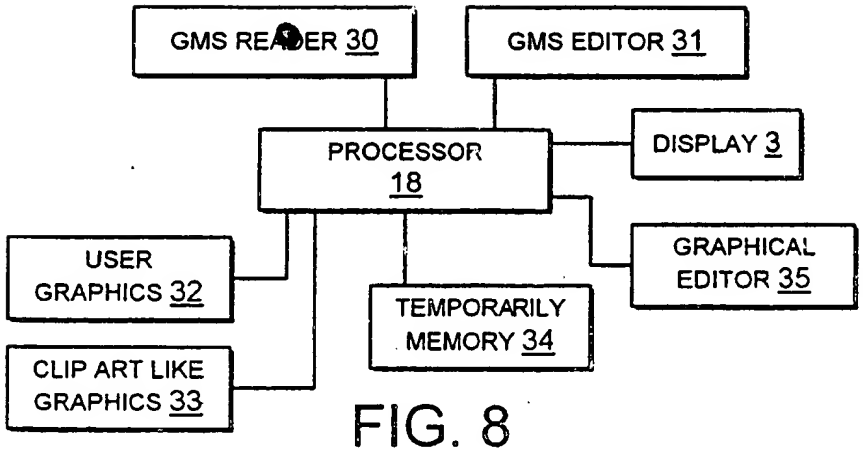

GMS READER 30
GMS EDITOR 31
PROCESSOR 18
DISPLAY 3
USER GRAPHICS 32
GRAPHICAL EDITOR 35
TEMPORARILY MEMORY 34
CLIP ART LIKE GRAPHICS 33

FIG. 8